Acer LCD Monitor

User Guide

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Acer LCD Monitor User Guide
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English

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Record the model number, serial number, purchase date and place of purchase information in the space provided below. The serial number and model number are recorded on the label affixed to your computer. All correspondence concerning your unit should include the serial number, model number and purchase information.

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Acer LCD Monitor User Guide

Model number: _____

Serial number: _____

Date of purchase: _____

Place of purchase: _____

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Information for your safety and comfort

Safety instructions

Read these instructions carefully. Keep this document for future reference. Follow all warnings and instructions marked on the product.

Special notes on LCD monitors

The following are normal with the LCD monitor and do not indicate a problem.

- Due to the nature of the fluorescent light, the screen may flicker during initial use. Turn off the power switch and then turn it on again to make sure the flicker disappears.
- You may find slightly uneven brightness on the screen depending on the desktop pattern you use.
- The LCD screen has 99.99% or more effective pixels. It may include blemishes of 0.01% or less such as a missing pixel or pixel lit all the time.
- Due to the nature of the LCD screen, an afterimage of the previous screen may remain after switching the image, when the same image is displayed for hours. In this case, the screen is recovered slowly by changing the image or turning off the power switch for a few hours.

Cleaning your monitor

Please carefully follow these guidelines when cleaning the monitor:

- Always unplug the monitor before cleaning.
- Use a soft cloth to wipe the screen and cabinet front and sides.

Accessibility

Be sure that the power outlet you plug the power cord into is easily accessible and located as close to the equipment operator as possible. When you need to disconnect power from the equipment, be sure to unplug the power cord from the electrical outlet.

Safe listening

To protect your hearing, follow these instructions.

- Gradually increase the volume until you can hear it clearly and comfortably and without distortion.
- After setting the volume level, do not increase it after your ears have adjusted.
- Limit the amount of time listening to music at high volume.
- Avoid turning up the volume to block out noisy surroundings.
- Turn the volume down if you can't hear people speaking near you.

Warnings

- Do not use this product near water.
- Do not place this product on an unstable cart, stand or table. If the product falls, it could be seriously damaged.
- Slots and openings are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should never be placed near or over a radiator or heat register, or in a built-in installation unless proper ventilation is provided.
- Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind onto or into the product.
- To avoid damage of internal components and to prevent battery leakage, do not place the product on a vibrating surface.
- Never use it under sporting, exercising, or any vibrating environment which will probably cause unexpected short current or damage internal devices.
- The adapter is only used for this monitor, do not be used for other purposes.
- Your device uses one of the following power supplies:
  Manufacture : Delta Electronics Inc., Model: ADP-40PH BB (P238HL Model)
  Manufacture :Asian Power Devices Inc. Model:DA-40A19 (P238HL Model)

Using electrical power

- This product should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
- Do not allow anything to rest on the power cord. Do not locate this product where

people will walk on the cord.

- If an extension cord is used with this product, make sure that the total ampere rating of the equipment plugged into the extension cord does not exceed the extension cord ampere rating. Also, make sure that the total rating of all products plugged into the wall outlet does not exceed the fuse rating.
- Do not overload a power outlet, strip or receptacle by plugging in too many devices. The overall system load must not exceed 80% of the branch circuit rating. If power strips are used, the load should not exceed 80% of the power strip's input rating.
- This product's power cord is equipped with a three-wire grounded plug. The plug only fits in a grounded power outlet. Make sure the power outlet is properly grounded before inserting the power cord plug. Do not insert the plug into a non-grounded power outlet. Contact your electrician for details.

Warning! The grounding pin is a safety feature. Using a power outlet that is not properly grounded may result in electric shock and/or injury.

Note: The grounding pin also provides good protection from unexpected noise produced by other nearby electrical devices that may interfere with the performance of this product.

- Use the product only with the supplied power supply cord set. If you need to replace the power cord set, make sure that the new power cord meets the following requirements: detachable type, UL listed/CSA certified, type SPT-2, rated 7 A 125 V minimum, VDE approved or its equivalent, 4.6 meters (15 feet) maximum length.

Product servicing

Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks. Refer all servicing to qualified service personnel.

Unplug this product from the wall outlet and refer servicing to qualified service personnel when:

- the power cord or plug is damaged, cut or frayed
- liquid was spilled into the product
- the product was exposed to rain or water
- the product has been dropped or the case has been damaged
- the product exhibits a distinct change in performance, indicating a need for service
- the product does not operate normally after following the operating instructions

Note: Adjust only those controls that are covered by the operating instructions, since improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal condition.

Potentially explosive environments

Switch off your device in any area with a potentially explosive atmosphere and obey all signs and instructions. Potentially explosive atmospheres include areas where you would normally be advised to turn off your vehicle engine. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death. Switch off the device near gas pumps at service stations. Observe restrictions on the use of radio equipment in fuel depots, storage and distribution areas; chemical plants; or where blasting operations are in progress. Areas with a potentially explosive atmosphere are often, but not always, marked. They include below deck on boats, chemical transfer or storage facilities, vehicles using liquefied petroleum gas (such as propane or butane), and areas where the air contains chemicals or particles such as grain, dust or metal powders.

Additional safety information

Your device and its enhancements may contain small parts. Keep them out of the reach of small children.

IT Equipment Recycling Information

Acer is strongly committed to environmental protection and views recycling, in the form of salvaging and disposal of used equipment, as one of the company's top priorities in minimizing the burden placed on the environment.

We at Acer are very conscious of the environmental effects of our business and strive to identify and provide the best working procedures to reduce the environmental impact of our products.

For more information and help when recycling, please go to this website:

http://www.acer-group.com/public/Sustainability/sustainability01.htm

Visit www.acer-group.com for further information on the features and benefits of our other products.

Disposal instructions

Do not throw this electronic device into the trash when discarding. To minimize pollution and ensure utmost protection of the global environment, please recycle. For more information on the Waste from Electrical and Electronics Equipment (WEEE) regulations, visit http://www.acer-group.com/public/Sustainability/sustainability01.htm

LCD pixel statement

The LCD unit is produced with high-precision manufacturing techniques. Nevertheless, some pixels may occasionally misfire or appear as black or red dots. This has no effect on the recorded image and does not constitute a malfunction.

This product has been shipped enabled for power management:

- Activate display's Sleep mode within 15 minutes of user inactivity.
- Activate computer's Sleep mode within 30 minutes of user inactivity.
- Wake the computer from Sleep mode by pushing the power button.

Tips and information for comfortable use

Computer users may complain of eyestrain and headaches after prolonged use. Users are also at risk of physical injury after long hours of working in front of a computer. Long work periods, bad posture, poor work habits, stress, inadequate working conditions, personal health and other factors greatly increase the risk of physical injury.

Incorrect computer usage may lead to carpal tunnel syndrome, tendonitis, tenosynovitis or other musculoskeletal disorders. The following symptoms may appear in the hands, wrists, arms, shoulders, neck or back:

- numbness, or a burning or tingling sensation
- aching, soreness or tenderness
- pain, swelling or throbbing
- stiffness or tightness
- coldness or weakness

If you have these symptoms, or any other recurring or persistent discomfort and/or pain related to computer use, consult a physician immediately and inform your company's health and safety department.

The following section provides tips for more comfortable computer use.

Finding your comfort zone

Find your comfort zone by adjusting the viewing angle of the monitor, using a footrest, or raising your sitting height to achieve maximum comfort. Observe the following tips:

- refrain from staying too long in one fixed posture
- avoid slouching forward and/or leaning backward
- stand up and walk around regularly to remove the strain on your leg muscles

Taking care of your vision

Long viewing hours, wearing incorrect glasses or contact lenses, glare, excessive room lighting, poorly focused screens, very small typefaces and low-contrast displays could stress your eyes. The following sections provide suggestions on how to reduce eyestrain.

Eyes

- Rest your eyes frequently.
- Give your eyes regular breaks by looking away from the monitor and focusing on a distant point.
- Blink frequently to keep your eyes from drying out.

Display

- Keep your display clean.
- Keep your head at a higher level than the top edge of the display so your eyes point downward when looking at the middle of the display.
- Adjust the display brightness and/or contrast to a comfortable level for enhanced text readability and graphics clarity.
- Eliminate glare and reflections by:
    - placing your display in such a way that the side faces the window or any light source
    - minimizing room light by using drapes, shades or blinds
    - using a task light
    - changing the display's viewing angle
    - using a glare-reduction filter
    - using a display visor, such as a piece of cardboard extended from the display's top front edge
- Avoid adjusting your display to an awkward viewing angle.
- Avoid looking at bright light sources, such as open windows, for extended periods of time.

Developing good work habits

Develop the following work habits to make your computer use more relaxing and productive:

- Take short breaks regularly and often.
- Perform some stretching exercises.
- Breathe fresh air as often as possible.
- Exercise regularly and maintain a healthy body.

Acer Incorporated
8F, 88, Sec. 1, Xintai 5th Rd., Xizhi
New Taipei City 221, Taiwan

English

CE

Declaration of Conformity

We,

Acer Incorporated
8F, 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City 221, Taiwan
Contact Person: Mr. RU Jan, e-mail:ru_jan@acer.com.tw

And,

Acer Italy s.r.l
Via Lepetit, 40, 20020 Lainate (MI) Italy
Tel: +39-02-939-921, Fax: +39-02 9399-2913
www.acer.it

Hereby declare that:

Product:	**LCD Monitor**
Trade Name:	**Acer**
Model Number:	**P238HL**
SKU Number:	**P238HL xxxxxx**
	("x" = 0~9, a ~ z, A ~ Z, or blank)

Is compliant with the essential requirements and other relevant provisions of the following EC directives, and that all the necessary steps have been taken and are in force to assure that production units of the same product will continue comply with the requirements.

EMC Directive 2004/108/EC as attested by conformity with the following harmonized standards:

-. EN55022, AS/NZS CISPR22 Class B.
-. EN55024
-. EN61000-3-2, Class D
-. EN61000-3-3

Low Voltage Directive 2006/95/EC as attested by conformity with the following harmonized standard:

-. EN60950-1

RoHS Directive 2002/95/EC on the Restriction of the Use of certain Hazardous Substances in Electrical and Electronic Equipment:

-. The maximum concentration values of the restricted substances by weight in homogenous material are:

Lead	0.1%	Polybrominated Biphenyls (PBB's)	0.1%
Mercury	0.1%	Polybrominated Diphenyl Ethers (PBDE's)	0.1%
Hexavalent Chromium	0.1%	Cadmium	0.01%

Directive 2009/125/EC with regard to establishing a framework for the setting of ecodesign requirements for energy-related product.

Year to begin affixing CE marking 2012.

Feb. 01, 2012

RU Jan / Sr. Manager
Regulation, Acer Inc.

Date

Acer America Corporation
333 West San Carlos St., San Jose
CA 95110, U. S. A.
Tel : 254-298-4000
Fax : 254-298-4147
www.acer.com

Federal Communications Commission
Declaration of Conformity

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The following local Manufacturer /Importer is responsible for this declaration:

Product:	LCD Monitor
Model Number:	P238HL
SKU Number:	P238HL xxxxxx ("x" = 0~9, a ~ z, A ~ Z or Blank)
Name of Responsible Party:	Acer America Corporation
Address of Responsible Party:	333 West San Carlos St. San Jose, CA 95110 U. S. A.
Contact Person:	Acer Representative
Phone No.:	254-298-4000
Fax No.:	254-298-4147

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Unpacking

Please check that the following items are present when you unpack the box, and save the packing materials in case you need to ship or transport the monitor in the future.

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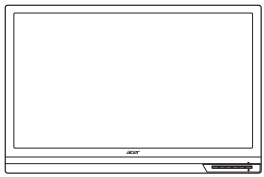
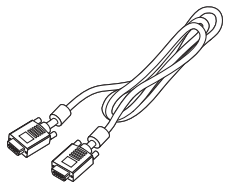
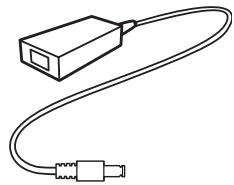
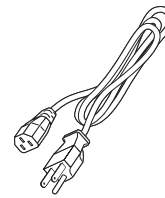
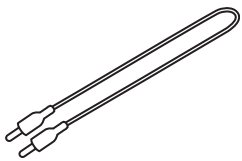
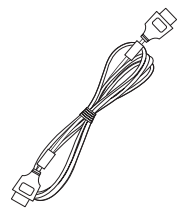
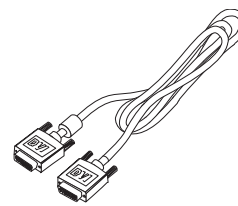
		
VGA cable	**AC Adapter**	**AC Power cord**
		
Audio cable (Optional)	**HDMI cable (Optional)**	**DVI cable (Optional)**
		

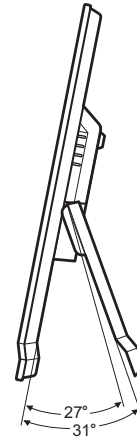
Screen position adjustment

1 Carefully remove the monitor from its packaging.

2 Place the monitor on a stable surface in the upright position.

3 Pull the stand away from the monitor so that you can adjust the monitor tilt. The monitor can be adjusted approximately 10° or 30° to suit your preference.

- The maximum tilt angle: 27°~31°.
- The minimum tilt angle: 10°~14°.



Wall Mount kit installation

Wall mount items (sold separately) allow you to mount the monitor on the wall. For detailed information on installing the wall mount, see the instructions provided with the Wall Mount items.

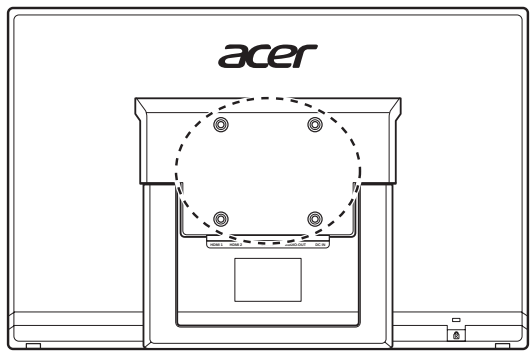
Warning! Do not install your Wall Mount Kit while your monitor is turned on. It may result in personal injury due to electric shock.

1 Purchase a VESA compatible wall bracket.

2 Locate your ideal monitor position on the wall.

3 Fix the wall bracket firmly on the wall.

4 Secure the monitor to the bracket using the 4 mount holes on the back and center of the monitor.



Connecting the adapter and AC Power cord

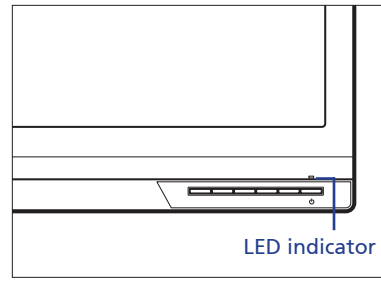
- Check first to make sure that the power cord you use is the correct type required for your area.
- The monitor has a universal power supply that allows operation in either 100/120 V AC or 220/240 V AC voltage area. No user-adjustment is required.
- Plug one end of the AC power cord to the Adapter, and plug the other end into an AC outlet.
- For units using 120 V AC:
  Use a UL-listed cord set, type SVT wire and plug rated 10 A/125 V.
- For units using 220/240 V AC:
  Use a cord set consisting of H05VV-F cord and plug rated 10 A/250 V. The cord set should have the appropriate safety approvals for the country in which the equipment will be installed.

Power saving

The monitor will be switched to "power saving" mode by the control signal from the display controller, as indicated by the blinking blue light.

Mode	LED light
On	Blue
Standby/Power saving	Blinking Blue

The power saving mode will be kept until a control signal has been detected or the keyboard or mouse is activated. The recovery time from "power saving" mode back to "on" is around 3 seconds.

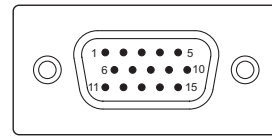


Display Data Channel (DDC)

To make installation easier, so long as your system supports the DDC protocol, the monitor is able to plug-and-play. The DDC is a communication protocol through which the monitor automatically informs the host system about its capabilities; for example, supported resolutions and corresponding timing. The monitor supports the DDC2B standard.

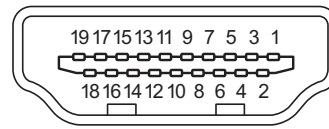
Connector pin assignment

15-pin color display signal cable



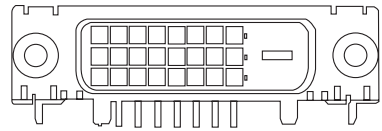
PIN No.	Pin Assignment	PIN No.	Pin Assignment
1	Red video input	9	+5 V
2	Green video input	10	Ground
3	Blue video input	11	No connection
4	Ground	12	(SDA)
5	VGA detect	13	Horizontal sync
6	Red video ground	14	Vertical sync
7	Green video ground	15	(SCL)
8	Blue video ground		

19-pin color display signal cable



PIN No.	Signal Assignment	PIN No.	Description
1	TMDS Data2+	2	TMDS Data2 Shield
3	TMDS Data2-	4	TMDS Data1+
5	TMDS Data1 Shield	6	TMDS Data1-
7	TMDS Data0+	8	TMDS Data0 Shield
9	TMDS Data0-	10	TMDS Clock+
11	TMDS Clock Shield	12	TMDS Clock-
13	CEC	14	Reserved (N.C. on device)
15	SCL	16	SDA
17	EDID/CEC Ground	18	+5V Power
19	Hot Plug Detect		

24-pin color display signal cable



PIN No.	Description	PIN No.	Description
1	TMDS negative differential input, channel 2	13	Reserved. No connection
2	TMDS positive differential input, channel 2	14	Power
3	Logic Ground	15	Plug Detect
4	Reserved. No connection	16	SENSE Pin, Pull High
5	Reserved. No connection	17	TMDS negative differential input, channel 0
6	DDC2B Clock	18	TMDS positive differential input, channel 0
7	DDC2B Data	19	Logic Ground
8	Reserved. No connection	20	Reserved. No connection
9	TMDS negative differential input, channel 1	21	Reserved. No connection
10	TMDS positive differential input, channel 1	22	Logic Ground
11	Logic Ground	23	TMDS positive differential input, reference clock
12	Reserved. No connection	24	TMDS negative differential input, reference clock

Standard timing table

Mode	Resolution (active dot)	Resolution (total dot)	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Nominal Pixel Clock (MHz)
VESA	640x480@60Hz	800 x 525	31.469	59.941	25.175
MAC	640x480@66.66Hz	864x525	35	66.66	30.24
VESA	720x400@70Hz	900x449	31.469	70.087	28.322
SVGA	800x600@56Hz	1024 x 625	35.156	56.250	36.000
	800x600@60Hz	1056 x 628	37.879	60.317	40.000
XGA	1024x768@60Hz	1344x806	48.363	60.004	65.000
	1024x768@70Hz	1328x806	56.476	70.069	75.000
VESA	1152x864@75Hz	1600x900	67.5	75	108
SXGA	1280x1024@60Hz	1688x1066	63.981	60.020	108.000
VESA	1280x720@60Hz	1664x746	44.760	60.000	74.481
WXGA	1280x800@60Hz	1680x831	49.702	59.810	83.500
WXGA+	1440x900@60Hz	1904x931	55.935	59.887	106.500
WSXGA+	1680x1050@60Hz	2240*1089	65.290	59.954	146.250
UXGA	1920x1080@60Hz	2576x1120	67.158	59.963	173.000
	1920x1080@60Hz	2200x1125	67.500	60.000	148.500

Installation

To install the monitor on your host system, please follow the steps below:

Steps

1 Connect the video cable
   a Make sure both the monitor and computer are switched off.
   b Connect the VGA video cable to the computer.
   c Connect the digital cable
      (1) Make sure both the monitor and computer are switched off.
      (2) DVI Cable (Optional, only Dual-Input Model)
         a. Make sure both the monitor and computer are powered-OFF.
         b. Connect the DVI cable to the computer.
      (3) HDMI Cable (Optional, only HDMI-Input Model)
         a. Make sure both the monitor and computer are powered-OFF.
         b. Connect the HDMI cable to the computer.

2 Connect the audio cable (Optional, only Audio-Input Model)
   a Connect an earphone to the audio port of the monitor.

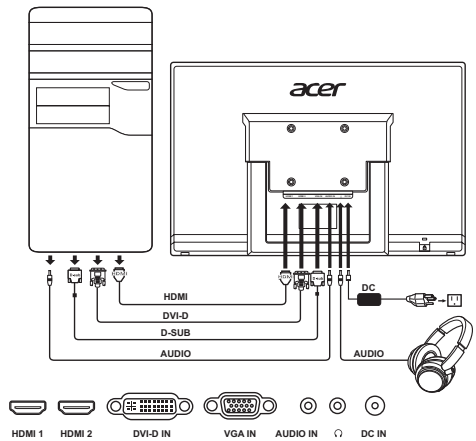
Note: Audio output is only available when the input signal is HDMI.

3 Connect the adapter
   a Connect the AC cord to the adapter.
   b Connect one end of the adapter to the monitor and the other end to a properly grounded, AC outlet.

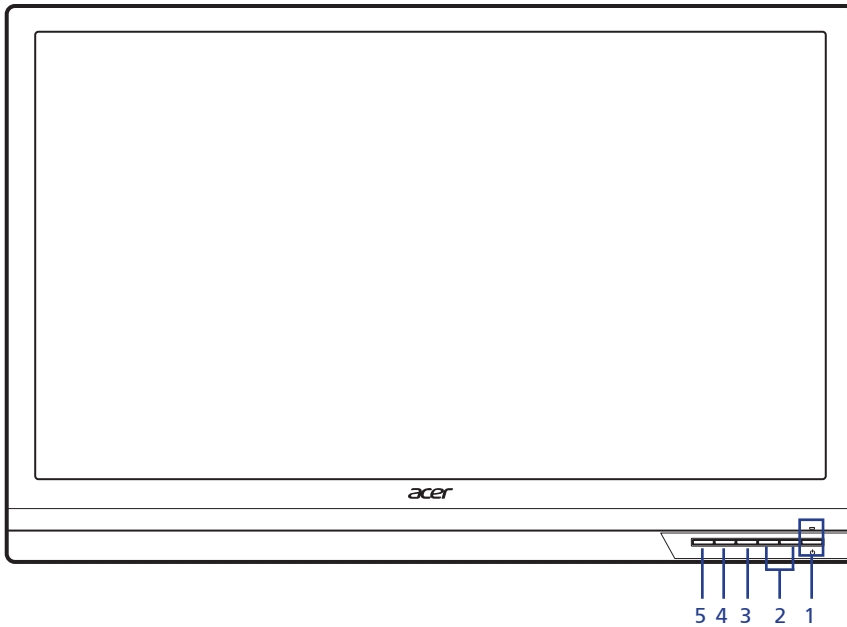
4 Turn on the monitor and computer

Turn on the monitor first, then the computer. This sequence is very important.

5 If the monitor does not function properly, please refer to the troubleshooting section to diagnose the problem.



Users controls



Panel controls

No.	Item	Description
1	Power button/ indicator	Turn the monitor on/off. Blue indicates power on. Blinking blue indicates standby/ power saving mode.
2	**+** / **-** button	Press the **+** / **-** button to navigate to the desired function, and press the **Menu** button to select the function. Press the **+** / **-** button to change the settings of the current function.
3	Menu/Enter button	Press to view the OSD menu. Press it again to enter a selection in the OSD menu.
4	Auto/Exit button	• When the OSD menu is active, press this button to exit the OSD menu. • When the OSD menu is inactive, press this button for two seconds to activate the Auto Adjustment function and the monitor will automatically optimize the display position, focus, and clock of your display.
5	Empowering Key	Press this button to open the Acer eColor Management OSD and access the scenario modes.

Using the Shortcut Menu

Press any of the function buttons (Empowering Key, **Auto** button, or **Menu** button) to open the shortcut menu. The shortcut menu lets you quickly select the most commonly accessed settings.

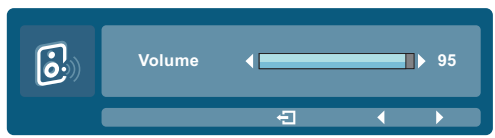
Icon	Item	Description
	Empowering	Press the Empowering Key to open the Acer eColor Management and access the scenario modes.
AUTO	Auto	Press the **Auto** button to activate the Auto Adjustment function and the monitor will automatically optimize the display position, focus, and clock of your display.
	Menu	Press the **Menu** button to activate the OSD menu.
	Volume	Press the **Volume** button to adjust volume. (Optional, only Audio-Input Model)
Input	Input	Press the **Input** button to select from different video sources that may be connected to your monitor. (Optional, only Dual-Input Model)

Volume Management

Operation instructions

1 Press any of the function buttons (Empowering Key, **Auto** button, or **Menu** button) to open the shortcut menu.

2 Select to access the Volume menu.



3 Press the **+** / **-** button to adjust the desired volume level.

Acer eColor Management

Operation instructions

1 Press the Empowering Key to open the Acer eColor Management OSD menu and access the scenario modes.

2 Press the **+** / **-** button to select the desired mode.

3 Press the **Auto** button to confirm the selection and exit Acer eColor Management.

Features and benefits

Icon	Mode type	Description
	User mode	User-defined. Settings can be fine-tuned to suit any situation.
	ECO mode	Adjusts the settings to reduce power consumption.
	Standard mode	Default settings. Reflects native display capability.
	Graphics mode	Enhances colors and emphasizes fine detail. Pictures and photographs appear in vibrant colors with sharp detail.
	Movie mode	Displays scenes in clearest detail. Presents great visuals, even in unsuitably-lit environments.

Using the OSD Menus

Note: The following content is for general reference only. Actual product specifications may vary.

Your LCD monitor is equipped with an on-screen display (OSD) menu for making various adjustments and settings.

Press the **Menu** button to open the OSD menu. You can use the OSD menu to adjust the picture quality, OSD timeout, and general settings.

Picture Menu

The Picture menu is used for adjusting the picture quality.

1 Press the **Menu** button to bring up the OSD menu.

2 Press the **+** / **-** button to select **Picture** and press the **Menu** button to enter the **Picture** menu.
The following options are available in the **Picture** menu: Acer ecolor Management, Brightness, Contrast, H. Position, V. Position, Focus, Clock, Colour Temp, and Auto Config.

3 Press the **+** / **-** button to scroll through the **Picture** options, and press the **Menu** button to enter its sub-menu.

4 Press the **+** / **-** button to adjust/select the setting and press the **Auto** button to confirm.

OSD Menu

The OSD menu is used for the timeout setting.

1 Press the **Menu** button to bring up the OSD menu.

2 Press the **+** / **-** button to select **OSD** and press the **Menu** button to enter the **OSD** menu.

3 Press the **+** / **-** button to to adjust the target position and press the **Auto** button to confirm.

4 To adjust the **OSD Timeout** setting, press the **Menu** button to enter its sub-menu.

5 Press the **+** / **-** button to select the desired time interval and press the **Auto** button to confirm.

Setting Menu

The Setting menu is used for adjusting the general settings for current input signal such as aspect ratio, OSD language, and etc.

1 Press the **Menu** button to bring up the OSD menu.

2 Press the **+** / **-** button to select **Setting** and press the **Menu** button to enter the **Setting** menu.
The following options are available in the **Setting** menu: Wide Mode, DDC/CI, ACM, Input, Language, and Reset.

3 Press the **+** / **-** button to scroll through the **Setting** options, and press the **Menu** button to enter its sub-menu.

4 Press the **+** / **-** button to adjust/select the setting and press the **Auto** button to confirm.

Information Menu

The Information menu displays the basic information of the LCD monitor.

1 Press the **Menu** button to bring up the OSD menu.

2 To view the basic information of the LCD monitor, press the **+** / **-** button to select **Information**.

Troubleshooting

Before sending your LCD monitor for servicing, please check the troubleshooting list below to see if you can self-diagnose the problem.

VGA Mode

Problem	LED status	Remedy
No picture visible	Blue	Using the OSD menu, adjust brightness and contrast to maximum or reset to their default settings.
	Off	Check the power switch. Check if the power cord is properly connected to the monitor.
	Blinking Blue	Check if the video signal cable is properly connected at the back of monitor. Check if the computer system is switched on and in power saving/standby mode.
Unstable picture	Blue	Check if the specification of graphics adapter and monitor is in compliance which may be causing the input signal frequency mismatch.
Abnormal picture (Image is missing, off-center, too large or too small on the screen.)	Blue	Using the OSD menu, adjust focus, clock, H-position and V-position with non-standard signals. Check the display setting on your system. In case of a missing image, please select another resolution or vertical refresh rate. Wait for a few seconds after adjusting the size of the image before changing or disconnecting the signal cable or switching off the monitor.

DVI/HDMI Mode (Optional)

Problem	LED status	Remedy
No picture visible	Blue	Using the OSD menu, adjust brightness and contrast to maximum or reset to their default settings.
	Off	Check the power switch. Check if the AC power cord is properly connected to the monitor.
	Blinking Blue	Check if the video signal cable is properly connected at the back of monitor. Check if the computer system is switched on and in power saving/standby mode.